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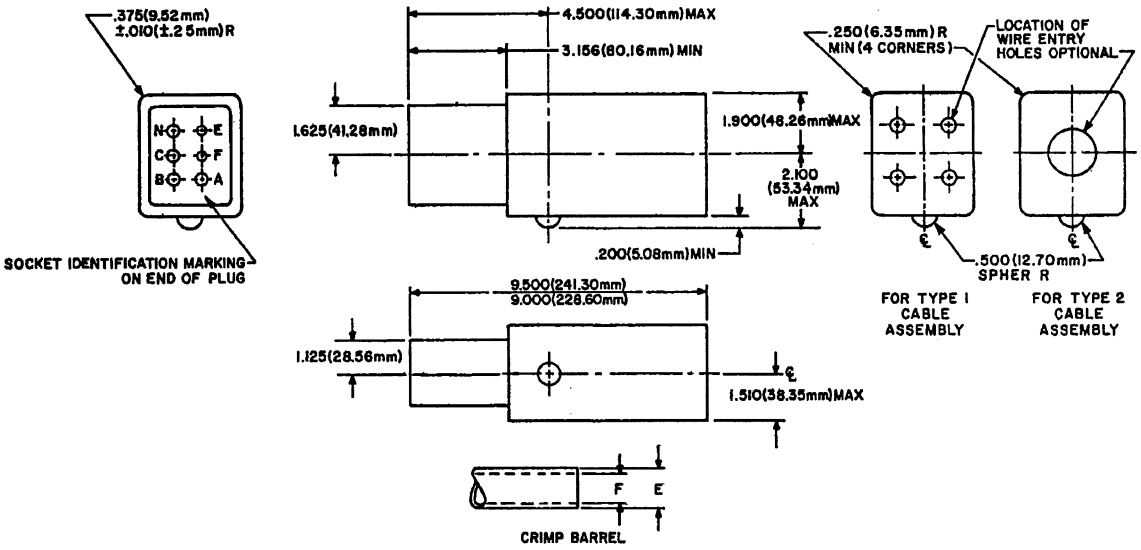
SAE The Engineering Society For Advancing Mobility Land Sea Air and Space®
INTERNATIONAL
400 Commonwealth Drive, Warrendale, PA 15096-0001

AEROSPACE STANDARD

CONNECTOR, PLUG, AIRCRAFT EXTERNAL POWER

AS7974/1
SHEET 1 OF 3

THE COMPLETE REQUIREMENTS FOR PROCURING CONNECTORS DESCRIBED HEREIN SHALL CONSIST OF THIS DOCUMENT AND THE ISSUE IN EFFECT OF SPECIFICATION MIL-C-7974.



FOR TYPE 1 CABLE ASSEMBLIES

PART NUMBER	WIRE SIZE A, B, C, N	E DIA.		F DIA.	
		MAXIMUM	MINIMUM	MAXIMUM	MINIMUM
M7974/1-1	2	.473 (12.01 mm)	.450 (11.43 mm)	.365 (9.27 mm)	.355 (9.02 mm)
M7974/1-2	4	.380 (9.65 mm)	.365 (9.27 mm)	.290 (7.37 mm)	.280 (7.11 mm)
M7974/1-3	1	.527 (13.38 mm)	.505 (12.82 mm)	.398 (10.10 mm)	.388 (9.85 mm)

FOR TYPE 2 CABLE ASSEMBLIES

PART NUMBER	WIRE SIZE A, B, C, N	E DIA.		F DIA.	
		MAXIMUM	MINIMUM	MAXIMUM	MINIMUM
M7974/1-4	2	.473 (12.01 mm)	.450 (11.43 mm)	.365 (9.27 mm)	.355 (9.02 mm)
M7974/1-5	4	.380 (9.65 mm)	.365 (9.27 mm)	.290 (7.37 mm)	.280 (7.11 mm)
M7974/1-6	1	.527 (13.38 mm)	.505 (12.82 mm)	.398 (10.10 mm)	.388 (9.85 mm)

REQUIREMENTS:

1. TYPE 1 FOR CABLE ASSEMBLIES WITH FOUR INDIVIDUAL WIRES BANDED TOGETHER.
2. TYPE 2 FOR CABLE ASSEMBLIES WITH FOUR WIRES IN A COMMON JACKET.
3. ELECTRICAL: 115/200 VOLT, 400 HERTZ.
4. MATERIAL: SEE MIL-C-7974.
5. MOLD OR STAMP WIRE SIZE ON CRIMP BARREL.
6. PLUGS SHALL HAVE SOCKETS E AND F CONNECTED TOGETHER WITHIN THE PLUG BY A COPPER OR BRASS JUMPER HAVING A CROSS SECTIONAL AREA OF AT LEAST 6530 CIRCULAR MILS.
7. EACH PLUG WHEN MATED WITH MS90362-3 RECEPTACLE SHALL MEET ALL THE REQUIREMENTS OF MIL-C-7974.
8. SOCKET CONTACT CRIMP TYPE BARREL ENDS SHALL BE DESIGNED SO THAT THE PLUG MAY BE ATTACHED TO CABLES USING CRIMPING TOOLS SPECIFIED IN MS20659.
9. ONLY NONCORROSIVE HARDWARE SHALL BE USED IN THE MANUFACTURE OF THE PLUG.

NOTES:

1. DIMENSIONS IN INCHES. UNLESS OTHERWISE SPECIFIED, TOLERANCES: DECIMALS ±.025 (±0.64 mm).
2. UNLESS OTHERWISE INDICATED, DIMENSIONS ARE SYMMETRICAL ABOUT CENTERLINES.